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KEY TO ABBREVIATIONS

ACGIH	American Conference of Governmental Industrial Hygienists
AEROS	Aerometric and Emissions Report System
ALR	allergenic effects
aph	anhydrous
API	American Petroleum Institute
ASA	American Standards Association
asn	Asperigillus nidulans
ASTM	American Society for Testing Materials
atm	atmospheres
at wt	atomic weight
AQTX	Aquatic Toxicity
autoign temp	autoignition temperature
BCM	blood clotting mechanism effects
bcs	Bacillus subtilis
BLD	blood effects
brd	bird (domestic or lab)
bwd	wild bird species
C	continuous
CAR	carcinogenic effects (also CARC)
CASRN	Chemical Abstract System Registration Number
cat	cat
(CC)	closed cup
cc or cm³	cubic centimeter
cfm	cubic feet per minute
CG	Coast Guard
chd	child
CHEM-LINE	On line data bases
CHEMRIC	Chemical Monograph Referral Center
CIIT	Chemical Industry Institute of Toxicology
CIS	Chemical Information System
ckn	chicken
CL	ceiling concentration
CNS	central nervous system effects
(COC)	Cleveland open cup
conc	concentration(s)
COR	corrosive effects
CPSC	Consumer Product Safety Commission
CRIT DOC	NIOSH Criteria Document
ctl	cattle
CUM	cumulative effects
CVS	cardiovascular effects
CYT	cytogenetic effects
°	degrees centigrade
°C	degrees Celcius
D	day
d	density
dck	duck
DDP	drug dependence effects
decomp	decomposes or decomposition
DEF	definition
DHEW	Department of Health, Education & Welfare
dmg	drosophila melanogaster
dnd	DNA damage
dnr	DNA repair
dns	unscheduled DNA synthesis
dog	dog
dom	domestic
DOT	Department of Transportation
dpo	Drosophila pseudo-obscura
emb	embryo
EMIC	Environmental Mutagen Information Center
EPA	Environmental Protection Agency
EROICA	Estimation and Retrieval of Organic Properties (a data base)
esc	Escheria coli
ETA	equivocal tumerigenic agent
ETIC	Environmental Teratology Information Center
exper	experimental
expl	explosive, explodes
eye	administration into eye (irritant)
EYE	eye effects (systemic)
°F	degrees Fahrenheit
fbr	fibroblast
flam	flammable
flash p	flash point
fp	freezing point
frg	frog
gm, g	grams
GIT	gastrointestinal tract effects
GLN	glandular effects
gm	gram
gpg	guinea pig
grb	gerbil
H	hour
ham	hamster
HIGH TOX	capable of causing death or permanent injury due to the exposures of normal use; incapacitating and poisonous; requires special handling
hla	Hela cell
hma	host-mediated assay
hmn	human
I	intermittent
ial	intraaural
IARC	International Agency for Research on Cancer
iat	intraarterial
IATA	International Air Transport Association
ice	intracerebral
icv	intracervical
idr	intradermal
idu	intraduodenal
IERL	Industrial Environmental Research Laboratory
ihl	inhalation
imm	immersion
imp	implant
ims	intramuscular
inf	infant
ipc	intraplacental
IPC	International Publishing Corp.
ipl	intrapleural
ipr	intraperitoneal
IRDS	primary irritation dose
irn	intrarenal
isp	intraspinal
itr	intratracheal
ivg	intravaginal
ivn	intravenous
JCPDS	Joint Committee on Powder Diffraction Standards
°K	degrees Kelvin
kg	kilogram (one thousand grams)
klp	klebsiella pneumoniae
L	liter
LC50	lethal concentration 50 percent kill
Ln	Length
LCLo	lowest published lethal concentration
LD50	lethal dose 50 percent kill
LDLo	lowest published lethal dose
lel	lower explosive limit
leu	leukocyte
lng	lung
LOW or LOW TOX	causes readily reversible tissue changes which disappear after exposure stops, causes some discomfort
lym	lymphocyte
M	minute
m-	meta
M3, m3	cubic meters
m	meter
mm	millimeters of mercury
mam	mammal (species unspecified)
man	man
MEDLINE	on line data bases
mg	milligram (one thousandth of a gram; 10-6 gram)
mky	monkey
ml	milliliter
MLD	mild irritation effects
mma	microsomal mutagenicity assay
MMI	mucous membrane effects
mmo	mutation in microorganisms
mmol	millimole
mmr	mammary gland
mnt	micronucleus test
MOD	moderate irritation effects
MOD or MOD TOX	may cause reversible or irreversible changes to exposed tissue, not permanent injury or death; Can cause considerable discomfort
mol	mole
mp	melting point
mpccf	millions of particles per cubic foot
mrc	gene conversion and mitotic recombination
msc	mutation in somatic mammalian cells
MSK	musculo-skeletal effects
MTDS	mutation dose
MTH	mouth effects
mul	multiple routes
mus	mouse
n	normal
NBS	National Bureau of Standards
NCI	National Cancer Institute
NCTR	National Center for Toxicological Research
NIH	National Institute of Health
NIOSH	National Institute Occupational Safety and Health
NFPA	National Fire Protection Association
ng	nanogram (one billionth of a gram: 10-9 gram)
NLM	National Library of Medicine
nmol	nanomole
NONE	no harm via exposures of normal use; harmful only due to overwhelming dose or unusual conditions
NO_x	Oxides of N
nse	non-standard exposure
NSP	National Science Foundation
o-	ortho
(OC)	open cup
ocu	ocular
OHM TADS	Oil & Hazardous Materials Technical Assistance Data System
open	open irritation test
orl	oral
ORNL	Oak Ridge National Laboratory
ORM	Other Required Material (DOT)
OSHA	Occupational Safety and Health Administration

otr	oncogenic transformation
ovr	ovary
p-	para
par	parenteral
pg	picogram (one trillionth of a gram: 10^{-12} gram)
pgn	pigeon
pig	pig
Pk	peak concentration
pmol	picomole
PNS	peripheral nervous system effects
PO_x	Oxides of P
ppb	parts per billion (v/v)
pph	parts per hundred (v/v) (percent)
ppm	parts per million (v/v)
ppt	parts per trillion (v/v)
preg	pregnant
PSY	psychotropic effects
PUL	pulmonary system effects
qai	quail
rat	rat
rbc	red blood cell effects
rbt	rabbit
rec	rectal mode of exposure
REGS	standards & regulations
RTECS	Registry of Toxic Effects of Chemical Substances
rns	rinsed with water
S	second
sat	Salmonella typhimurium
sce	sister chromatid exchange
SCP	Standards Completion Program
scu	subcutaneous
sec-	secondary
SEV	severe irritation effects
skn	administration onto skin
SKN	skin effects (systemic)
sln	sex chromosome loss and nondisjunction
slt	specifie locus test
smc	Saccharomyces cereviseae
SO_x	Oxides of S
SOTDAT	Source Test Data
spm	sperm morphology
spont	spontaneous(ly)
sql	squirrel
srm	Serratia marcenscens
ssp	Schizosaccharomyces pombe
STORET	Storage and Retrieval
sym	symmetrical
syn	synonym
SYS	systemic effects
TC	toxic concentration
(TCC)	Tag closed cup
TCLO	lowest published toxic concentration
TD	toxic dose
TDLO	lowest published toxic dose
TER	teratogenic effects
ter-	tertiary
TFX	toxic effects
THR	summary tox statement; acute unless otherwise indicated
TLV	Threshold Limit Value
(TOC)	Tag open cup
tod	toad
tox	toxic(ity)
TOXLINE	on line data bases
TRC	Thermodynamics Research Laboratory
trk	turkey
trn	heritable translocation test
TSCA	Toxic Substances Control Act
TWA	time weighted average
U or uk	unknown, insufficient data or experience recorded or available to permit a statement
uel	upper explosive limit
ug	microgram (one millionth of a gram; 10^{-6} gram)
ulc	Underwriter's Laboratory Classification
umol	micromole
unk	unreported
uns	unsymmetrical
UNS	toxic effects unspecified in source
USAF	United States Air Force
USFWS	U.S. Fish and Wildlife Service
vapd	vapor density
vap press	vapor pressure
W	week
Wt	Weight
WBC	white blood cell effects
wmn	woman
Y	year
Δ	via heat or heating
1°	primary
α	alpha
β	beta
γ	gamma
$\rightarrow$	yields or causes

EPA's Environmental Response Team in Edison, N.J. can be reached 24 hours at (201) 321-6661

KEY TO BONDING SYMBOLS

◆ = Single Bond

+ = Double Bond

Δ = Triple Bond

• = Aromatic Bond

% = Tautomeric Bond